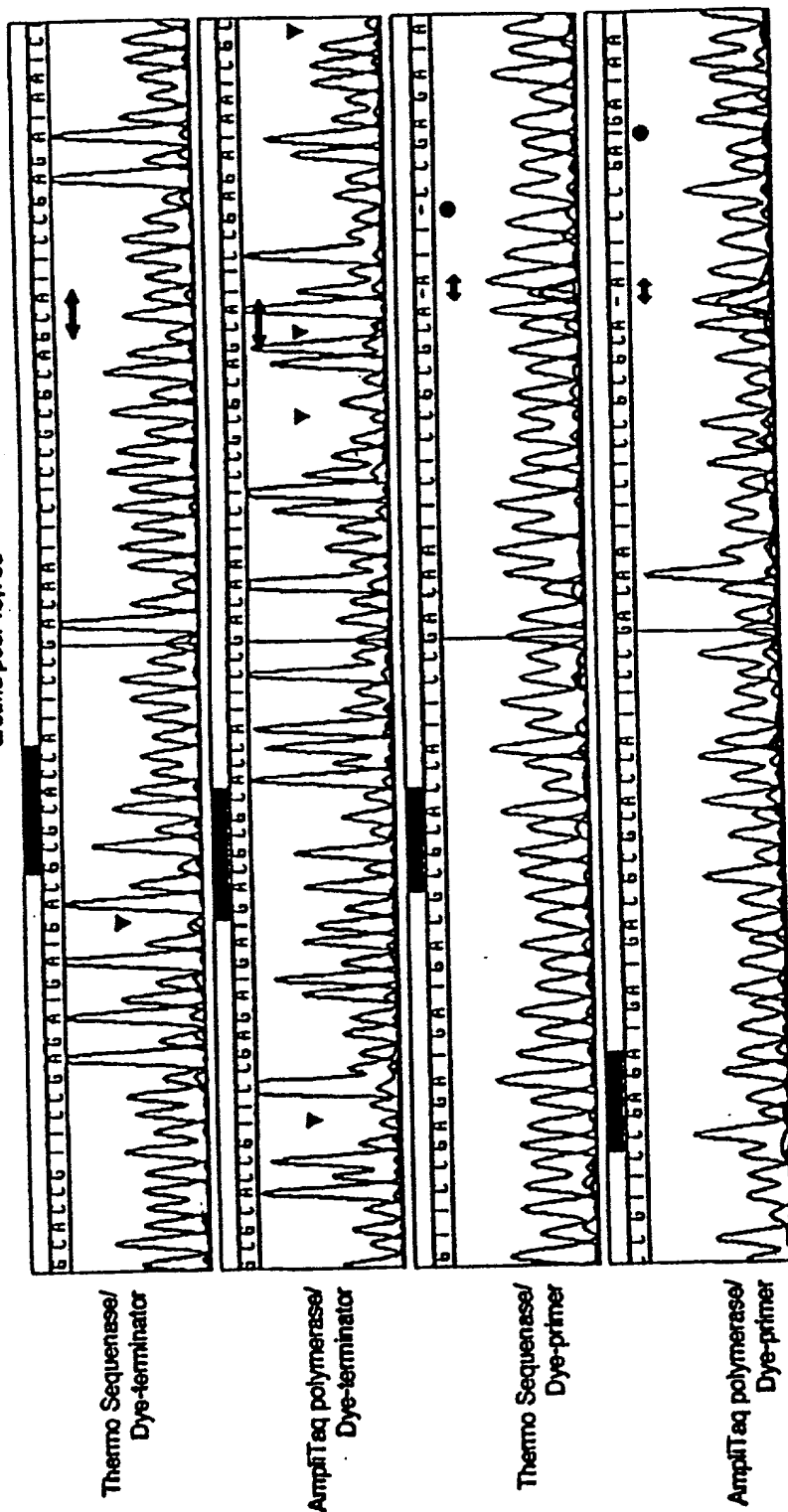
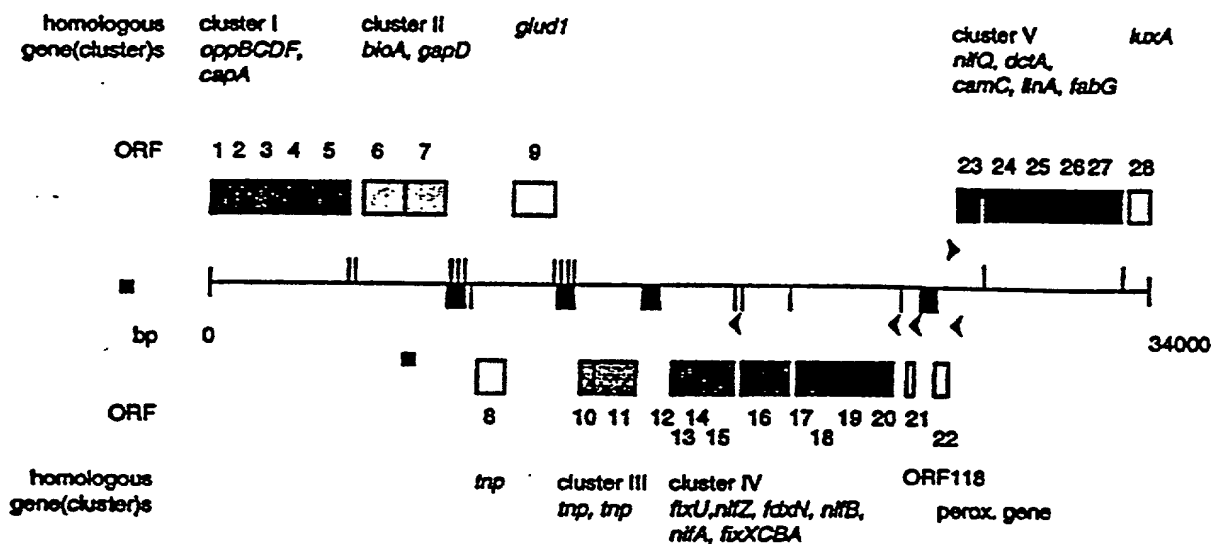


pXB296  
around pos. 15,783



**Figure 1.** Comparison of sequences from pXB296 created by different cycle sequencing methods. The graphic outputs (program XGAP) of four electropherograms (traces) with the corresponding sequences generated by automatic base calling are shown around the pXB296 sequence position 15,783 (vertical line in the middle of each sequence). The readings cover a part of the minus strand of pXB296. (▼) Extremely low signals produced with dye terminators; (↔) the sequence GCA, which is compressed in dye primer scans; (●) automatic base-calling inaccuracies.



**Figure 2.** Organization of the predicted ORFs in pXB296 from *Rhizobium* sp. NGR234. Significant stem-loops (|)/stem-loop clusters (■), which might function as p-independent transcription terminators, are represented. Sequence motifs (open arrowhead), similar to  $\sigma^{54}$ -dependent promoter consensus sequences (TGGCACG-N<sub>4</sub>-TTGC) + *nifA* upstream activator sequences (TGT-N<sub>10</sub>-ACA), are located at the following positions on the cosmid: 19,107-19,120 + 19,195-19,210; 24,787-24,800 + 24,878-24,893; 25,508-25,521 + 25,567-25,582; 26,815-26,828 + 26,941-26,956 (all minus strand); 27,074-27,131 (several possibilities) + 26,969-26,984 (plus strand).

Complete sequence of pNGR234a:

Figure 3

Length: 536165 bp

```

1  gatctcgatt ggcagaaccg gcaccgcgcg ccagctaact acgccataga
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101  gcgcggatcg cctcgcgcgc cttaccata tgagccgcgt cgacggaatc
151  accgatcatc ttgagcgcga agtaagactt cagcgttgcg ctcatatcga
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251  cgagataaat ttccgatttt ggcttcgagc acgacgtcaa tgggctcggc
301  caggtaataa cgtagcagga tgtattcgga agggatgggt gaatccgctt
351  caagctcgaa cgcccaatgg ccgtcggcat gacgataagc gagcagcgcc
401  tcagtggctg aggcgatgct catttcacgc gccgcgggat cgatggcagt
451  gcgatttcgg gaattgcttat tcaactgactt cctgcgtgtt cggcagcgtg
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601  accgggttgc gtccagtcgc cagcaaggaa caggtttttg caaccggcta
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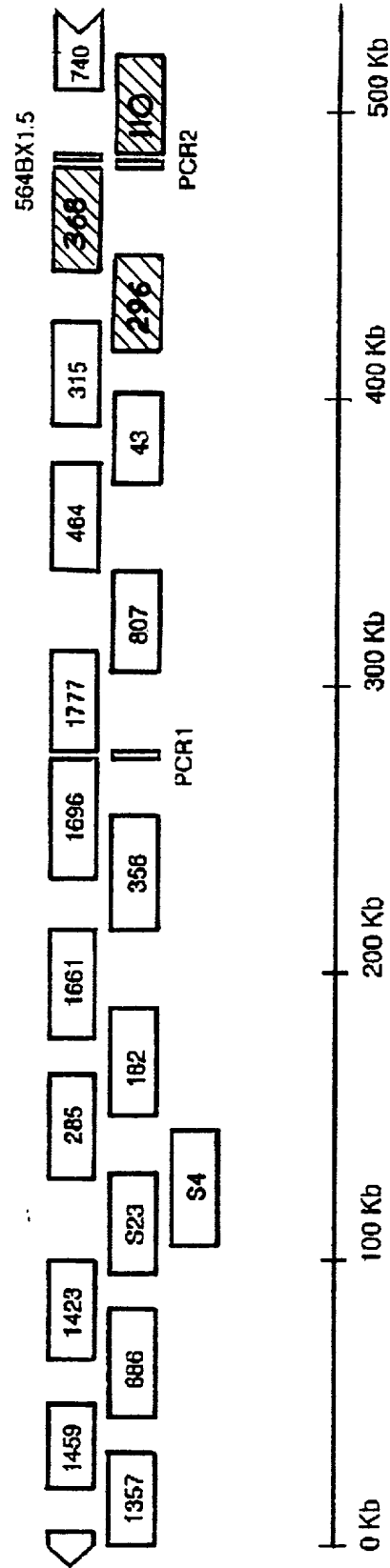
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536101 atagtgtgc gcgccagta ggagatcttg tagaggtgga acggcgacca  
536151 gattggcagt agcac

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**Figure 4: Map of the 20 sequenced cosmids covering the 536-Kb symbiotic plasmid of *Rhizobium* sp. NGR234.**

The cosmid names consist of the prefix pXB and numbers that are given in the graphic.

PCR1: PCR product covering the gap between two cosmids from position 276,448 to 277,944.

564BX1.5 and PCR2: a subcloned 1.5-Kb DNA-fragment derived from cosmid pXB564 and a PCR product covering the gap between two cosmids from pos. 480,607 to 483,991.

Grey coloured areas cover the region from pos. 417,796 to 517,279 mentioned in the text.



Multiple alignments of the nucleotide sequence of the replication origins of: the *ΔJC A* Ri plasmid of *Agrobacterium rhizogenes* (pRiA4b), the symbiotic replicon of NGR234 (pNGR234a), the Ti plasmid of *A. tumefaciens* BS63 (pTiBS63) and pRL8JI of *R. leguminosarum* bv. *leguminosarum* (pRL8JI). Gaps introduced to give the best sequence alignments are marked by hyphens.

Multiple alignments of the nucleotide sequence of the replication origins of: the Ri plasmid of *Agrobacterium rhizogenes* (pRiA4b), the symbiotic replicon of NGR234 (pNGR234a), the Ti plasmid of *A. tumefaciens* BS63 (pTiBS63) and pRL8JI of *R. leguminosarum* bv. *leguminosarum* (pRL8JI). Gaps introduced to give the best sequence alignments are marked by hyphens.

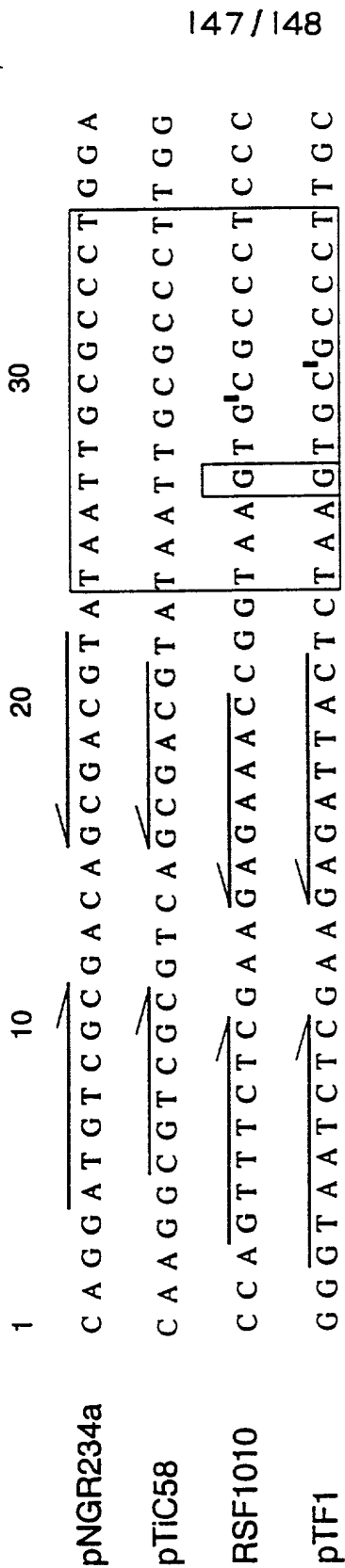


Figure 6. Multiple DNA sequence alignments of the regions containing the origin of transfer of: the symbiotic plasmid of NGR234; pTiC58, the Ti plasmid of *A. tumefaciens* C58; RSF1010, a mobilisable plasmid of *E. coli*, and; pTF1, a mobilizable plasmid of *Thiobacillus ferrooxidans*. Major conserved nucleotide residues are boxed. Known "nick" sites corresponding to the nucleotide positions where the specific plasmid strand is cleaved are marked (z). Sequence features in the trailing portion of the *oriT* sites include inverted repeats which are marked by horizontal arrows.

